

WHAT IS CLAIMED IS:

- 5 1. A medical needle shield apparatus comprising:
- a first housing being configured to actuate a needle cannula disposed therewith;
- and
- a second housing being releasably engageable with the first housing, the needle
- cannula being disposed for slidable movement with the second housing such that the
- 10 second housing is extensible from a retracted position to an extended position to enclose
- a distal end of the needle cannula,
- the second housing including a binding member that defines binding surfaces that
- form an aperture configured for slidable receipt of the needle cannula between the
- retracted position and the extended position,
- 15 the binding member including at least one drag inducing member such that the at
- least one drag inducing member engages the needle cannula during slidable receipt of the
- needle cannula to create a drag force with the needle cannula, the drag force and second
- housing facilitate rotation of the binding member relative to a longitudinal axis of the
- needle cannula such that the binding surfaces engage the needle cannula to prevent
- 20 slidable movement of the needle cannula in the extended position of the second housing.
2. A medical needle shield apparatus as recited in claim 1, wherein the
- binding member further includes a needle communicating surface extending therefrom

such that the needle communicating surface is engageable with the needle cannula to prevent rotation of the binding member.

3. A medical needle shield apparatus as recited in claim 1, wherein the binding member includes a substantially planar aperture plate that includes the binding
5 surfaces that form the aperture.

4. A medical needle shield apparatus as recited in claim 3, wherein the at least one drag inducing member includes a pair of arms extending from the aperture plate.

5. A medical needle shield apparatus as recited in claim 1, wherein the
10 second housing includes an inner housing that is disposed with the binding member.

6. A medical needle shield apparatus as recited in claim 5, wherein the inner housing defines at least one blocking member extending from an interior surface thereof, the at least one blocking member being engageable with the binding member for urging the binding member to a binding orientation.

7. A medical needle shield apparatus as recited in claim 1, wherein the
15 needle cannula includes an inner needle disposed for slidable movement with the needle cannula.

8. A medical needle shield apparatus as recited in claim 7, wherein the inner needle includes a lateral recess disposed adjacent a distal end thereof.

9. A medical needle shield apparatus as recited in claim 7, further including a
20 means for selectively locking movement between the needle cannula and inner needle.

10. A medical needle shield apparatus as recited in claim 7, wherein the inner needle includes a cutting edge.

11. A medical needle shield apparatus as recited in claim 1, wherein the needle cannula includes a cutting edge.

5 12. A medical needle shield apparatus as recited in claim 1, wherein the second housing includes a handle, the handle defining a cavity configured for receipt of the first housing such that the first housing is releasably engageable with the second housing.

10 13. A medical needle shield apparatus as recited in claim 1, wherein the first housing includes a handle.

14. A medical needle shield apparatus as recited in claim 1, wherein the first housing is releasably engageable with the second housing.

15 15. A medical needle shield apparatus as recited in claim 1, wherein the first housing is releasably engageable with the second housing by means of an operable release.

16. A medical needle shield apparatus as recited in claim 15, wherein activation of the operable release selectively locks movement between the needle cannula and inner needle.

20 17. A medical needle shield apparatus as recited in claim 1, wherein the first housing includes a locking configuration that mates with a groove of the second housing to facilitate releasable engagement of the first housing and the second housing.

18. A medical needle shield apparatus as recited in claim 1, wherein the first housing includes an actuating mechanism that actuates the needle cannula.

19. A medical needle shield apparatus as recited in claim 18, wherein the actuating mechanism includes a slide mounted with the needle cannula, the slide
5 facilitating axial movement of the needle cannula.

20. A medical needle shield apparatus as recited in claim 19, wherein the actuating mechanism includes a biasing member that engages the slide to bias the needle cannula in a distal direction.

21. A medical needle shield apparatus as recited in claim 20, wherein the
10 actuating mechanism includes a trigger that is connected to the biasing member for actuation thereof.

22. A medical needle shield apparatus as recited in claim 20, including a spring means for maintaining the actuating assembly in a proximal position.

23. A medical needle shield apparatus comprising:
15 a first housing including an actuating mechanism that actuates a needle cannula disposed therewith; and

a second housing including a handle, the handle defining a cavity configured for receipt of the first housing such that the first housing is releasably engageable with the second housing, the needle cannula being disposed for slidable movement with the
20 second housing such that the second housing is extensible from a retracted position to an extended position to enclose a distal end of the needle cannula,

the second housing including a binding member having an aperture plate, the aperture plate defining binding surfaces that form an aperture configured for slidable receipt of the needle cannula between the retracted position and the extended position,

the binding member including at least one drag inducing member such that the at
5 least one drag inducing member engages the needle cannula during slidable receipt of the needle cannula to create a drag force with the needle cannula, the drag force facilitates rotation of the binding member relative to a longitudinal axis of the needle cannula such that the binding surfaces engage the needle cannula to prevent slidable movement of the needle cannula in the extended position of the second housing,

10 wherein the binding member further includes a needle communicating surface extending therefrom such that the needle communicating surface is engageable with the needle cannula to prevent rotation of the binding member.

24. A medical needle shield apparatus as recited in claim 23, wherein the at
15 least one drag inducing member includes a pair of arms extending from the aperture plate.

25. A medical needle shield apparatus as recited in claim 23, wherein the
second housing includes an inner housing that is disposed with the binding member, the inner housing defining at least one blocking member extending from an interior surface thereof, the at least one blocking member being engageable with the binding member for
20 urging the binding member to a binding orientation.

26. A medical needle shield apparatus as recited in claim 23, wherein the first housing includes a locking configuration that mates with a groove of the second housing to facilitate releasable engagement of the first housing and the second housing.

27. A medical needle shield apparatus as recited in claim 23, wherein the
5 actuating mechanism includes a spring biased slide mounted with the needle cannula, the slide facilitating axial movement of the needle cannula.

28. A medical needle shield apparatus comprising:

a core including a spring biased actuating mechanism that actuates a needle cannula disposed therewith, the actuating mechanism having a slide that is mounted with
10 the needle cannula to facilitate axial movement thereof, the needle cannula including an inner needle disposed for slidable movement with the needle cannula, the inner needle including a lateral recess disposed adjacent a distal end thereof; and

a base including a handle, the handle defining a cavity configured for receipt of the first housing such that the first housing is releasably engageable with the second
15 housing, the needle cannula being disposed for slidable movement with the second housing such that the second housing is extensible from a retracted position to an extended position to enclose a distal end of the needle cannula,

the second housing including an inner housing that supports a binding member, the binding member having an aperture plate, the aperture plate defining binding surfaces
20 that form an aperture configured for slidable receipt of the needle cannula between the retracted position and the extended position,

the binding member including a pair of friction members that engage the needle cannula during slidable receipt of the needle cannula to create a drag force with the needle cannula, the drag force facilitates rotation of the binding member relative to a longitudinal axis of the needle cannula such that the binding surfaces engage the needle cannula to prevent slidable movement of the needle cannula in the extended position of the second housing,

wherein the binding member further includes a needle communicating surface extending therefrom such that the needle communicating surface is engageable with the needle cannula to prevent rotation of the binding member.

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